2006-08 USST Svamittal

ADEQ Response 52: ADEQ disagrees that its assessment methodology is inconsistent with state water quality standards or EPA's 2006 assessment and listing guidance. See ADEQ Responses #17, #18 and #19.

Franciscan Friars of California

Franciscan Friars Comment 53: We adopt and incorporate by reference the comments submitted by the Arizona Mining Association relating to the Methods and Technical Support component of the draft Integrated Report. We are specifically concerned with the addition of selenium as a cause of impairment to Pinto Creek (See page SR-46 in the Integrated Report). This determination appears to be based on 3 grab sample exceedances which, as explained in AMA comments, is an insufficient number of samples and an inappropriate methodology.

ADEQ Response 53: See Responses #18 and #19. ADEQ agrees, based on weight of evidence, that Pinto Creek (from unnamed tributary at 331927/1105456 to West Fork of Pinto Creek) requires additional analysis for selenium and has been removed from the impaired waters list (Category 5) and placed on the planning list for further monitoring.

	RS ASSESSED AS IM 2008 303(d) List subm	
Surface Water	Reach or Lake Number	Pollutants or Parameters of Concern
Bill Williams Watershed		
Alamo Lake	15030204-0040	Ammonia, pH (high), low dissolved oxygen
Bill Williams River From Alamo Lake to Castaneda Wash	15030204-003	Ammonia, pH (high), low dissolved oxygen
Santa Maria River From Little Sycamore Creek to Little Shipp Wash	15030203-013	Mercury
Colorado - Grand Canyon Watershed		
Colorado River From Lake Powell to Paria River	14070006-001	Selenium
Colorado River From Parashant Canyon to Diamond Creek	15010002-003	Selenium, suspended sediment concentration
Paria River From Utah border to Colorado River	14070007-123	Escherichia coli bacteria, suspended sediment concentration
Virgin River From Beaver Dam Wash to Big Bend Wash	15010010-003	Selenium, suspended sediment concentration
Colorado – Lower Gila Watershed		
Colorado River From Hoover Dam to Lake Mohave	15030101-015	Selenium
Colorado River From Main Canal to Mexico border	15030107-001	Selenium, low dissolved oxygen
Gila River From Coyote Wash to Fortuna Wash	15070201-003	Selenium, boron
Painted Rock Borrow Pit Lake	15070201-1010	Low dissolved oxygen
Little Colorado – San Juan Watershed		
Little Colorado River From Silver Creek to Carr Wash	15020002-004	Escherichia coli bacteria, suspended sediment concentration
Little Colorado River From Porter Tank Draw to McDonalds Wash	15020008-017	Copper, silver, suspended sediment concentration
Middle Gila Watershed		
Alvord Park Lake	15060106B-0050	Ammonia
Chaparral Lake .	15060106B-0300	Dissolved oxygen, Escherichia coli bacteria
Cortez Park Lake	15060106B-0410	Dissolved oxygen, high pH
Gila River From San Pedro River to Mineral Creek	15050100-008	Suspended sediment concentration
Gila River From Centennial Wash to Gillespie Dam	15070101-008	Boron, selenium
Hassayampa River From headwaters to Copper Creek	15070103-007A	Low pH
Mineral Creek From Devils Canyon to Gila River	15050100-012B	Copper, low dissolved oxygen, selenium

(The 2006/2	2008 303(d) List submi	ittal to EPA)	
Surface Water	Reach or Lake Number	Pollutants or Parameters of Concern	
Queen Creek From headwaters to mine WWTP discharge	15050100-014A	Copper	
Queen Creek From mine WWTP to Potts Canyon	15050100-014B	Copper	
Turkey Creek From unnamed tributary at 34°19'28"/112°21'28" to Poland Creek	15070102-036B	Copper, lead	
Salt River Watershed			
Apache Lake	15060106A-0070	Low dissolved oxygen	
Canyon Lake	15060106A-0250	Low dissolved oxygen	
Christopher Creek From headwaters to Tonto Creek	15060105-353	Phosphorus	
Five Point Mountain Tributary From headwaters to Pinto Creek	15060103-885	Copper	
Pinto Creek From West Fork Pinto Creek to Roosevelt Lake	15060103-018C	Selenium	
Salt River From Pinal Creek to Roosevelt Lake	15060106A-004	Suspended sediment concentration	
Salt River From Stewart Mountain Dam to Verde River	15060106A-003	Low dissolved oxygen	
Tonto Creek From headwaters to unnamed tributary	15060105-013A	Phosphorus, low dissolved oxygen	
San Pedro – Willcox Playa – Rio Yaqui Wate	ershed		
Brewery Gulch From headwaters to Mule Gulch	15080301-337	Copper	
Mule Gulch From headwaters to above Lavender Pit	15080301-090A	Copper	
Mule Gulch From above Lavender Pit to Bisbee WWTP	15080301-090B	Copper	
Mule Gulch From Bisbee WWTP to Highway 80 Bridge	15080301-090C	Cadmium, copper, low pH, zinc	
San Pedro River From Babocomari Creek to Dragoon Wash	15050202-003	Escherichia coli bacteria	
San Pedro River From Dragoon Wash to Tres Alamos Wash	15050202-002	Nitrate	
San Pedro River From Aravaipa Creek to Gila River	15050203-001	Escherichia coli bacteria, selenium	
Santa Cruz – Rio Magdalena – Rio Sonoyta	Watershed		
Nogales and East Nogales washes From Mexico border to Potrero Creek	15050301-011	Ammonia, chlorine, copper, Escherichia collabacteria	
Santa Cruz River From Mexico border to Nogales WWTP	15050301-010	Escherichia coli bacteria	

(The 2006/2	008 303(d) List submi	ittal to EPA)
Surface Water	Reach or Lake Number	Pollutants or Parameters of Concern
Sonoita Creek From 750 feet below Patagonia WWTP discharge to Santa Cruz River	15050301-013C	Low dissolved oxygen, zinc
Upper Gila Watershed		
Blue River From Strayhorse Creek to San Francisco River	15040004-025B	Escherichia coli bacteria
Cave Creek From headwaters to South Fork of Cave Creek	15040006-852A	Selenium
Gila River From New Mexico border to Bitter Creek	15040002-004	Escherichia coli bacteria, suspended sediment concentration
Gila River From Skully Creek to San Francisco River	15040002-001	Selenium
Gila River From Bonita Creek to Yuma Wash	15040005-022	Escherichia coli bacteria
San Francisco River From Blue River to Limestone Gulch	15040004-003	Escherichia coli bacteria
Verde Watershed		
East Verde River From Ellison Creek to American Gulch	15060203-022B	Selenium
East Verde River From American Gulch to Verde River	15060203-022C	Arsenic, boron
Oak Creek From headwaters to West Fork Oak Creek	15060202-019	Escherichia coli bacteria
Oak Creek From West Fork Oak Creek to tributary at 34°57'09" / 111° 45'13"	15060202-018A	Escherichia coli bacteria
Oak Creek From tributary at 34°57'09" / 111° 45'13" to downstream boundary of Slide Rock State Park	15060202-018B	Escherichia coli bacteria
Oak Creek From Slide Rock State Park to Dry Creek	15060202-018C	Escherichia coli bacteria
Oak Creek From Dry Creek to Spring Creek	15060202-017	Escherichia coli bacteria
Spring Creek From Coffee Creek to Oak Creek	15060202-022	Escherichia coli bacteria

Surface Water	Reach or Lake Number	Pollutants or Parameters of Concern	
Gila River	15070101-005	DDT metabolites, toxaphene and chlordane	
Rainbow Wash - Sand Tank		in fish tissue	
Gila River	15070101-001	DDT metabolites, toxaphene and chlordane	
Sand Tank - Painted Rocks Reservoir		in fish tissue	
Hassayampa River	15070103-001B	DDT metabolites, toxaphene and chlordane	
Buckeye Canal – Gila River		in fish tissue	
Painted Rocks Reservoir	15070101-1020A	DDT metabolites, toxaphene and chlordane in fish tissue	
Salt River 23 <sup>rd</sup> Ave WWTP - Gila River	15060106B-001D	DDT metabolites, toxaphene and chlordane in fish tissue	
Salt River Watershed		an rion closure	
Crescent Lake	15060101-0420	High pH	
Tonto Creek From headwaters to unnamed tributary	15060105-013A	Low dissolved exygen ADEW isded	
San Pedro – Willcox Playa – Rio Yaqui Wa	itershed		
Brewery Gulch From headwaters to Mule Gulch	15080301-337	Gopper- APE & Bloked	
Mule Gulch From above Lavender Pit to Bisbee WWTP	15080301-090B	Low pH	
Santa Cruz – Rio Magdalena – Rio Sonoyta	Watershed		
Parker Canyon Lake	15050301-1040	Mercury in fish tissue yes	
Rose Canyon Lake	15050302-1260	Low pH	
Upper Gila Watershed			
Gila River	15040005-022	Sediment	
From Bonita Creek to Yuma Wash	13070003-022	Sediment yes, add	
San Francisco River	15040004-023	Sediment	
From headwaters to New Mexico border	13040004-023	Sediment wait new late when	
erde Watershed		TAC	
Granite Creek	15060202-059A	Low dissolved oxygen	
From headwaters to Willow Creek			
Watson Lake	15060202-1590	High ph, ow dissolved oxygen, nitrogen	
waison Lake		1 7 7	
Whitehorse Lake	15060202-1630	Low dissolved oxygen	
Vataon Lalza	15060202-1590	High ph. low dissolved oxygen, nitrogen	

Surface Water	Reach or Lake Number	Pollutants or Parameters of Concern	
Bill Williams Watershed	Number		
Alamo Lake	15030204-0040	Mercury in fish tissue	)
Alaillo Lake	13030204-0040	Wicicuty III IIsh tissue	
Boulder Creek	15030202-006B	Mercury	
From unnamed wash at 34°41'14"/113°03'34"			16
to Wilder Creek			-1
Boulder Creek	15030202-005A	Mercury	O
From Wilder Creek to Butte Creek			
Burro Creek	15030202-004	Mercury	
From Boulder Creek to Black Canyon Creek			
Coors Lake	15030202-5000	Mercury in fish tissue	/
Colorado - Grand Canyon Watershed			
Colorado - Lower Gila Watershed			
Painted Rock Borrow Pit Lake	15070201-1010	DDT metabolites, toxap	hene and chlordan
		in fish tissue	
Little Colorado - San Juan Watershed			
Bear Canyon Lake	15020008-0130	Low pH	
Lake Mary (lower)	15020015-0890	Mercury in fish tissue	
Lake Mary (lower)	13020013-0890	Mercury in fish tissue	RES
Lake Mary (upper)	15020015-0900	Mercury in fish tissue	-6.
Little Colorado River	15020002-004	Sediment	Y 6 11-
From Silver Creek to Carr Wash		A	K & addes
Long Lake (lower)	15020008-0820	Mercury in fish tissue	
I amon I also	15020001-0850	Marayer in Esh tissue	\
Lyman Lake	15020001-0850	Mercury in fish tissue	
Soldier's Annex Lake	15020008-1430	Mercury in fish tissue	
Soldier's Lake	15020008-1440	Mercury in fish tissue	\
Middle Gila Watershed			1/5.
Gila River	15070101-015	DDT metabolites, toxap	hene and chlordane
Salt River - Agua Fria River		in fish tissue	
Gila River	15070101-014	DDT metabolites, toxap	hene and chlordan
Agua Fria River - Waterman Wash		in fish tissue	
Gila River	15070101-010	DDT metabolites, toxap	hene and chlordan
Waterman Wash - Hassayampa River		in fish tissue	
Gila River	15070101-009	DDT metabolites, toxap	hene and chlordan
Hassayampa River - Centennial Wash		in fish tissue	
Gila River	15070101-008	DDT metabolites, toxap	hene and chlordan
Centennial Wash - Gillespie Dam		in fish tissue	
Gila River	15070101-007	DDT metabolites, toxap	hene and chlordan
Gillespie Dam - Rainbow Wash		in fish tissue	